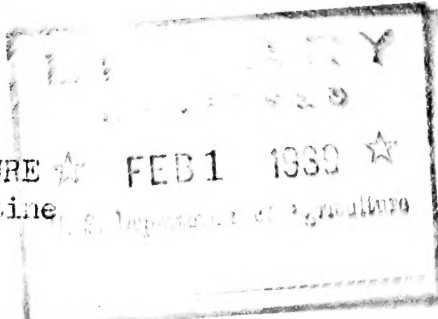


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UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Entomology and Plant Quarantine
Washington, D. C.



December 30, 1938.

Summarized in the attached statement are the results of the past season's trap-scouting to determine distribution of the Japanese beetle. Included as part of the record is a list showing points outside the present regulated area at which beetles were captured, together with comparisons of previous years' trap catches in nonregulated territory.

As now contemplated, quarantine area revision based on the present season's scouting will be limited to local extension of the zone in Maryland, New York, Ohio, Pennsylvania, Virginia, and West Virginia. Soil treating programs to suppress established infestations within the respective States have been completed in Georgia, Illinois, Kentucky, Michigan, and Missouri. Lead arsenate was also applied to the infestations in Erie and Oil City, Pa. Early spring treatments of the Indiana infestations are assured. Quarantine action will be deferred for the present in North Carolina and in Brighton and Rochester, N. Y., to afford interested State and local officials an opportunity to organize treating programs in the infested communities. All major infestations in North Carolina are now subject to State regulations closely paralleling Federal quarantine restrictions.

These control measures are considered adequate to eliminate the hazard of interstate spread of the insect from nonquarantined States. Accordingly, no quarantine hearing will be held at this time to consider the extension of the regulated zone or modification of the regulations. The accompanying statement is issued in lieu of the report usually given at quarantine hearings. It makes available to State quarantine officials and other interested parties the latest information on the distribution of this insect.

LEE A. STRONG,

Chief of Bureau.

JAPANESE BEETLE CONTROL OPERATIONS DURING 1938

All the principal field stations of the Bureau of Entomology and Plant Quarantine throughout the United States were utilized during the past summer in a Japanese beetle trapping survey. Starting in April and extending into July, small lots of traps were sent to the field stations. A total of 1,920 traps was distributed in lots of a dozen each to 160 Bureau field stations in 36 States, including 29 nonquarantined States, and 7 States partially infested. The only States not represented in this bureau-wide field survey were Arkansas, Nevada, Oklahoma, South Dakota and Kentucky. The Bureau's regularly scheduled trapping program took care of trap-scouting in Kentucky. This left only four States that were not trapped to some degree in this season's program. In only two instances were beetles caught in traps set and tended by staff members of the field stations. A solitary beetle each was caught at Sandusky, Ohio and Savannah, Georgia.

This summer the Bureau cooperated in a large-scale Japanese beetle control campaign inaugurated by the State of Maryland. Approximately 40,000 traps were operated in the State during the summer. Part of these were loaned by the Bureau but the majority were the property of the State. Total trap catches during the season amounted to 123,166 quarts of beetles. These would weigh 42.3 tons. Trapping was carried on in 89 cities, towns and villages. In heavily infested areas in Cecil, Baltimore, Kent, Somerset and Worcester counties, demonstration trapping was sponsored on farms. The control program was designed to retard and control the insect in infested areas. Educational work was an essential part of the program. Demonstrations of spraying and soil treatment, colonization of parasites, and adjustment of planting dates were several phases of the summer's control activities.

The regular trapping program was carried on in 18 States. At the seasonal peak, 97,786 of the scouting-type traps were in operation. A total of 341 trap inspectors was employed, usually for 30 working days, to place and tend the traps.

Traps were distributed in 402 cities and towns. Throughout the season beetles were caught at 95 of the trapping points. Only 37 of these were first-records, the remainder being sparse infestations carried over from previous years.

The only first-record infestations showing enough beetles to warrant quarantine or control measures were confined to the partially-regulated States. Three first-record infestations in Illinois were of 1 or 2 beetles each. The same was true in the case of a single first-record in Iowa, 2 in Michigan, and 3 in North Carolina. In States partially under regulation, first-record collections were made in 3 localities in Maine, 4 in Maryland, 8 in New York, 9 in Ohio, and 4 in Virginia. Of these the only infestations of an established nature that would warrant soil treatment or quarantine extension were those at Jefferson, Lander, and Queen Anne, Md.; Mount Morris and Brighton, N. Y. -- the latter a suburb of Rochester; and Dennison, Dover and Newark, Ohio. Some of the incipient or negligible infestations--ranging from 1 to 10 beetles each--will probably be included in the regulated area because of their proximity to the main regulated zone or due to their location between the main regulated area and some of the more important infestations that may be placed under regulation.

Of considerable more consequence than the first-record infestations were the increased beetle populations in quite a number of cities and towns in which the insect had been captured in previous years. Soil treating programs have been quite extensive, in many of the localities showing substantial population increases.

Since trapping operations began in May of this year, Bureau spray trucks have been utilized in cooperative soil poisoning operations in 10 cities. Acreage sprayed approximated 430. There has been no change in the standard dosage of 1,000 pounds of lead arsenate per acre for control of isolated infestations. Most extensive of the soil treating jobs was that in Chicago. Here 162 acres were treated to cover the sections where most of the beetles were caught in the city this summer. A consistently good soil treating program in Chicago has effected progressive reductions in the annual finds, starting at 3,740 in 1936, and tapering off to 384 last year and 330 this summer.

Twenty-seven beetles were captured in St. Louis this summer which may be compared with the taking of a lone beetle there in 1937. There is cause for encouragement, however, in the fact that only one of the beetles trapped this summer was taken in a section that had received lead arsenate application in any year since the treating program began there in 1934.

The principal quarantine expansion growing out of this year's trap survey will be in Ohio, where a few counties will

probably be added and several additional island-type quarantined areas set up to add a few of the established isolated infestations. The State has under consideration plans to treat some of the more important infestations, thereby keeping them out of the regulated zone.

Completion of soil treatments in Detroit, Mich., Oil City and Erie, Pa., Louisville, Ky., Atlanta, Ga., and Winchester and Harrisonburg, Va. avoids quarantine action in these cities for the coming year. Assurances have been received from the State Entomologist of Indiana that their treating program will be continued next spring to include the principal infestations discovered there this season. Minor extensions of the area to take in a few infestations are indicated in Maryland, New York, Pennsylvania, Virginia and West Virginia. At the request of the North Carolina officials, quarantine action in that State is being deferred at least until spring while an effort is made to organize a control program. Regulation of the movement of host material from the infested communities in the State continues under existing State quarantine regulations.

Following the trapping of 75 beetles in Rochester, N. Y. in 1937, soil treatment was done on the strength of which quarantine action was withheld. This year's trapping shows that infestation in the city is more widespread than disclosed last year. In addition, a comparatively heavy, though localized, infestation has been found in Brighton, adjoining the city on the south. A conference to discuss the Rochester situation was held there on December 13. At that time State officials and northern New York nurserymen expressed a desire to attempt a repetition of the soil treating program. Quarantine action is accordingly being temporarily withheld to permit further consideration of spring treatments in these two communities.

JAPANESE BEETLE TRAPPING
OUTSIDE PRESENT REGULATED AREA
1922 - 1938

- 5 -

Location	1938	1937	1936	1935	1934	1933	1932
	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.
<u>GEORGIA</u>							
Atlanta	3033	122	6	-	-	-	400
Augusta	-	-	-	-	-	-	400
Savannah	12	1	-	-	-	-	400
<u>ILLINOIS</u>							
Chicago	9926	330	384	7500	3740	1038	6
Cicero	600	5	1	-	-	-	-
East St. Louis	800	1	3	1102	2	804	1
Elgin	385	-	1	-	-	-	-
Everston	600	1	20	-	-	-	-
<u>INDIANA</u>							
East Chicago	300	1	-	-	-	-	-
Elkhart	300	2	-	-	-	-	-
Ft. Wayne	1600	20	18	399	5	-	-
Indianapolis	3600	10	12	3500	28	792	17
Logansport	400	8	1	300	-	-	-
South Bend	1600	8	43	800	3	-	-
Whiting	100	1	-	200	-	-	-
<u>IOWA</u>							
Ft. Madison	200	1	-	-	-	-	-
<u>KENTUCKY</u>							
Lexington	597	1	1	400	1	-	-
Louisville	1566	62	10	800	2	-	-

1931

Atlanta, Ga. 24 traps - no beetles
Savannah, Ga. 300 traps - no beetles
Chicago, Ill. 300 traps - no beetles

Location	1938	1937	1936	1935	1934	1933	1932
	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.
MAINE							
Augusta	300	-	253	200	1	204	1
Bangor	260	3	301	293	1	204	200
Bath	200	2	175	202	-	202	-
Brunswick	200	1	71	84	-	120	-
Ellsworth	100	1	125	72	-	-	-
MARYLAND							
Beverly Beach	-	10	10	-	-	-	-
Cockeysville	50	10	15	25	-	25	46
East New Market	100	25	20	25	2	25	-
Festport	203	10	10	-	-	-	6
Fogemont	-	5	-	-	-	-	-
Emmitsburg	96	55	50	50	1	50	60
Froeland	-	10	-	-	-	-	-
Glyndon	-	-	10	-	-	-	48
Kampstead	149	-	10	-	-	-	101
Mancock	102	-	10	-	-	24	304
Hereford	-	10	10	23	1	-	-
Hughesville	64	10	14	10	-	20	-
Hurlock	100	35	25	25	18	25	94
Jefferson	3	59	-	-	-	-	5
Kenwood Beach	-	10	-	-	-	-	-
Keymar	-	12	-	-	-	-	19
Lander	41	17	-	-	-	-	-
Leonardtown	192	10	20	25	3	25	-
Lisbon	-	7	-	-	-	-	-
Mechanicsville	50	10	10	10	-	10	-
Mount Airy	157	24	25	50	1	50	-
Mount Savage	-	-	20	-	-	-	-
North Beach	-	10	10	-	-	-	-

Location	1933	1937	1936	1935	1934	1933	1932
	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.
MARYLAND (Cont'd.)							
Preston	126	75	20	25	3	51	92
Queen Anne	90	273	-	-	-	-	-
Reisterstown	-	25	25	40	-	40	108
Ridgeville	24	9	-	-	-	10	-
Riviera Beach	-	-	10	-	-	-	-
Rockville	-	-	30	-	2	100	1
Savage	101	156	15	-	-	-	-
Seaside Park	-	-	10	-	-	-	-
Shadyside	82	-	10	-	-	-	-
Solomons Island	-	-	10	-	1	25	2
Taneytown	148	21	31	75	-	85	105
Thurmont	106	2	43	50	1	78	186
Union Bridge	-	-	15	-	-	50	-
Westernport	100	-	50	93	-	75	-
Woodensburg	-	-	-	-	-	-	-
MICHIGAN							
Dearborn ***	780	1	398	-	-	-	-
Detroit	5313	82	4686	790	23	1042	389
Highland Park	200	2	-	-	-	-	-
Pontiac	50	1	-	-	-	144	-
MISSOURI							
St. Louis	12500	27	11562	10070	1232	-	-
NEW HAMPSHIRE							
Woodsville	12	-	100	-	-	202	1

1931 1930 1929
 200 traps - no beetles 100 traps - no beetles no traps
 100 traps - no beetles

Dearborn, Mich.***
 Detroit, Mich.

Location	1938	1937	1936	1935	1934	1933	1932
	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.
NEW YORK							
Albion	100	1	-	-	-	-	-
Brighton	91	876	-	-	-	-	-
Canandaigua	100	4	-	-	-	-	396
Dansville	100	10	-	-	60	-	81
Dunkirk	197	1	98	96	-	198	135
East Aurora	99	-	-	-	60	198	192
Fulton	-	190	-	-	-	204	-
Geneva	200	2	200	191	132	192	100
Gowanda	-	-	-	-	-	-	144
Hammondsport	21	1	-	-	-	-	-
Hornell	298	60	200	-	204	-	210
Jamestown	-	300	398	204	287	197	15
Lockport	-	-	195	-	196	196	89
Messara	100	1	-	-	-	204	-
Medina	150	1	-	-	60	198	-
Mt. Morris	100	652	-	-	-	-	-
Newark	198	200	100	96	-	192	-
Niagara Falls	-	790	800	403	396	380	250
Olean	-	400	200	209	204	198	177
Oswego	-	200	200	204	204	192	-
Rochester	3275	2400	1972	396	396	396	393
Seneca Falls	100	-	-	96	60	-	110
Watertown	388	42	-	-	-	192	1
Westfield	-	397	100	96	96	198	141
NORTH CAROLINA							
Asheville	12	396	400	-	-	395	-
Aulander	-	-	-	-	-	25	-
Burlington	-	193	200	-	-	250	-

1931

Dunkirk, N. Y. 100 traps - no beetles
Rochester, N.Y. 300 traps - no beetles

Location	1938	1937	1936	1935	1934	1933	1932
	Traps J. L.	Traps J. L.	Traps J. L.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.
<u>NORTH CAROLINA</u>							
Charlotte	-	738	400	400	-	396	-
Durham	800	394	399	383	-	396	192
East Spencer	-	189	73	-	-	-	-
Elizabeth City	200	197	192	192	-	202	-
Fayetteville	196	-	200	200	-	200	400
Goldsboro	-	-	200	200	-	200	-
Greensboro	-	384	779	400	-	396	-
Hamlet	100	-	-	-	-	51	-
Henderson	98	-	60	100	-	175	-
HighPoint	600	400	396	371	-	300	-
Kinston	200	-	200	200	-	196	-
Lexington	158	-	-	150	-	99	-
Lumberton	-	-	99	100	-	75	-
Murfreesboro	-	-	-	-	-	36	-
Oxford	-	-	40	50	-	100	-
Releigh	600	397	400	400	-	396	204
Rocky Mount	400	393	400	395	-	275	9
Salisbury	-	407	526	300	-	171	-
Sanford	96	-	99	100	-	100	-
Spencer	-	200	206	200	-	26	-
Statesville	200	-	200	200	-	200	-
Thomasville	181	-	200	200	-	96	-
Lake Forest	-	-	25	35	-	60	-
Washington	94	-	-	-	-	146	-
Wilmington	100	380	400	347	-	395	400
Wilson	200	200	200	200	-	196	-
Winston-Salem	-	1158	1212	700	-	396	400
		273	37	109	-	5	10
<u>OHIO</u>							
Ashtabula	397	212	299	103	100	216	250

1931
300 traps - no beetles

Wilmington, N. C.

Location	1938	1937	1936	1935	1934	1933	1932
	Treps J. B.	Treps J. B.	Treps J. B.	Treps J. B.	Treps J. B.	Treps J. B.	Treps J. B.
OHIO (Cont'd) Bellaire							
Belpre	-	198	200	200	-	-	-
Dexley	36	12	-	-	-	-	-
	50	200	-	-	-	-	-
Carrollton	40	-	-	-	-	-	-
Chillicothe	-	297	300	171	132	132	-
Cincinnati	1200	950	973	800	-	396	400
Cleveland Hgts.	400	399	-	-	-	-	-
Connecticut	196	200	200	95	100	-	-
Lennison	194	-	-	-	-	-	-
Lover	186	144	-	-	-	-	-
East Cleveland	400	400	-	-	-	-	-
Gallipolis	197	199	100	-	-	-	-
Lancaster	196	-	280	300	-	-	-
Marionfield	400	392	400	400	-	192	-
Marietta	260	284	300	200	-	196	-
Newark	175	-	200	395	-	198	-
Orville	80	-	-	-	-	-	-
Sandusky	12	382	200	-	-	-	-
Uhrichsville	100	-	-	-	-	-	-
Washington C. H.	-	198	-	125	132	1	-
Wooster	200	193	200	100	-	-	-
Zanesville	-	398	400	396	-	198	1
PENNSYLVANIA							
Erie	2353	1964	1593	1597	1427	1230	774
Oil City	399	383	-	-	-	-	193
Sharon	567	364	400	-	-	92	-

1931

Cincinnati, Ohio 300 traps - no beetles
 Erie, Penna. 600 traps - 22 beetles

Location	1938	1937	1936	1935	1934	1933	1932
	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.
<u>SOUTH CAROLINA</u>							
Charleston *	794	783	730	755	-	-	800
Florence	12	297	300	306	-	-	201
Greenville	765	750	794	799	89	2	-
<u>TENNESSEE</u>							
Bristol	172	151	175	-	-	-	-
<u>VIRGINIA</u>							
Ashland	29	60	50	100	7	102	-
Bon Air	-	12	10	5	6	-	-
Bristol	196	145	125	-	-	-	-
Buena-Vista	99	100	100	-	-	-	-
Charlottesville	-	397	400	299	30	204	400
Clifton-Forge	-	84	100	-	-	-	-
Colonial Beach	55	14	15	-	-	-	-
Danville	-	375	400	-	-	-	-
East Highland Park	-	-	-	383	4	204	-
Emporia	-	32	30	8	1	-	-
Front Royal	52	-	25	60	8	60	61
Harrisburg	199	197	200	-	-	-	173
Hopewell	130	200	200	200	2	228	-
Luray	44	-	25	40	1	180	-
Lynchburg	-	789	399	394	-	40	47
Milford	17	10	5	-	-	192	400
New Market	20	-	25	25	-	12	-
Orange	30	30	-	48	-	25	24
Petersburg	-	400	400	395	2	48	-
Petersburg-Pike	-	2	-	30	1	216	200
Pulaski	-	90	150	143	4	-	-
					14	-	-

*Charleston, S.C.
 1931
 300 traps - 4 beetles

Location	1938	1937	1936	1935	1934	1933	1932
<u>VIRGINIA (Cont.)</u>							
Roanoke	-	757	38	800	16	406	28
Route 2 *	2	-	-	-	-	204	9
South Hill	-	20	1	15	-	-	-
Staunton	198	200	2	200	-	192	-
Wakefield (see Washington's Birth Place)	15	10	-	-	-	-	-
Warsaw	15	10	-	-	-	15	-
Washington's Birth Place	300	7422**	15	7119	-	-	-
Waynesboro	-	-	-	100	-	114	-
Winchester	333	300	5	300	8	296	2
						186	7
<u>WEST VIRGINIA</u>							
Berkeley Springs	30	-	-	35	-	-	-
Charleston	400	403	1	396	36	395	-
Charles Town	58	13	1	-	36	-	2
Huntington	593	796	2	400	-	198	-
Martinsburg	400	400	5	396	3	396	7
Moundsville	-	200	-	200	-	132	-
Phillipi	-	60	1	-	-	-	-
Princeton	-	100	2	150	6	132	-

*State Route 2 about three miles south of Fredericksburg - Telephone pole 1887, Trap No. 24, 1 female
 State Route 2 and County Road 609 near intersection D. M. Poast, Resident-Trap #2, 1 male

**From Cooper's Quarterly Report - July 1 - Sept. 30.

